

ABSTRACT OF THE DISCLOSURE

A microprocessor may include a dispatch unit configured to dispatch load and store operations and a load store unit configured to store information associated with load and store operations dispatched by the dispatch unit. The load store unit includes a STLF (Store-to-Load Forwarding) buffer that includes a plurality of entries. The load store unit is configured to generate an index dependent on at least a portion of an address of a load operation, to use the index to select one of the plurality of entries, and to forward data included in the one of the plurality of entries as a result of the load operation.